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## EDC® – Expanded Daisy Chain: Modular Connector System for Devices and Modules Connected in Series

Direct PCB contact and signal integrity in all mating states, including when unmated

**Fridolfing, October, 2026** – Rosenberger introduces EDC® – Expanded Daisy Chain, a modular connector system for daisy-chain connections. The connectors make direct contact with the PCB, eliminating the need for a separate PCB connector. The configuration of the inner conductors determines whether signal transmission to downstream units is interrupted or maintained when a slot is unoccupied. Two assembly variants are available for production, including a half-shell solution for pre-assembled, storable subassemblies. All variants are based on the same patent-free, open interface and are plug-compatible with one another.

### Two contact modes for different requirements

Daisy-chain systems connect multiple devices or modules in series and are used in electronics as well as in industrial and automation technology, among other fields. With conventional solutions, signal transmission to all downstream units is interrupted if a single connector within the chain is not mated. EDC® allows users to choose between two contact modes.

In the “Conventional” contact mode, signal transmission to downstream units is interrupted when a connector is unmated, as has been common practice to date. In the “Looped Through” contact mode, however, the signal is looped through even in the unmated state. Downstream devices thus remain connected even if individual slots are not occupied. This ensures signal integrity in every mating state.

As a result, additional units can be installed independently of one another, and individual units can be replaced or removed without affecting the rest of the system. Furthermore, connected devices can be operated even before the last device in the chain is connected.

### Two assembly variants for different manufacturing processes

As the number of connections increases, conventional daisy-chain systems become increasingly difficult or even impossible to assemble automatically. With “Classic” and “Half-Shell,” EDC® offers two assembly variants that also allow fully automated assembly.

In the “Classic” variant, the inner conductors—similar to today’s standard power pins—are inserted individually into the housing from the rear and secured via a common secondary locking mechanism. This variant does not require additional half-shells. Since the inner conductors are only protected once they are inside the final housing, this variant is best suited for immediate further processing and only suitable to a limited extent for intermediate storage.

The “Half-Shell” variant is based on half-shells and standardized subassemblies. Subassemblies, each connecting two adjacent chain links, can be pre-assembled and stored until further processing. The total length and arrangement of the chain links can be configured according to the specific application. This means, for example, that the same subassemblies can be used in vehicles of different sizes without requiring a completely new configuration.

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### Direct PCB contact saves costs and space

EDC® makes direct contact with the PCB via contact pads with a standard tin finish and is designed for standard PCB tolerances. Since no separate PCB connector is required, both costs and space requirements are reduced. The system offers high-frequency stability and low transmission losses. The components are designed in accordance with DIN 70214; the color and mechanical coding also comply with this standard.

### Applications ranging from bus systems to retrofitting

EDC® is suitable for signal transmission in bus systems and Ethernet networks compliant with 100BASE-T1, as well as for powering devices such as LED lighting—for example, in vehicles—or sensors with a current of up to 5 A. In addition, the “Looped Through” contact mode enables additional possibilities for modular installation concepts. For example, monitors, speakers, or other devices can be retrofitted into an existing daisy chain without interrupting signal transmission to downstream units.

For more information, visit:
https://www.rosenberger.com/product/edc-expanded-daisy-chain/

**Images** (free to use with credit: “Image: Rosenberger”):

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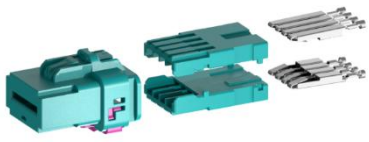
| | EDC® – Expanded Daisy Chain: one interface for different contact modes and assembly variants |
| | EDC® Assembly variants “Classic” (left) and “Half-Shell” (right) |
|  | Exploded view of the “Half-Shell” assembly variant |

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**About Rosenberger**

Rosenberger is a globally renowned manufacturer of electronic components and systems, recognized for cutting-edge technologies, engineering excellence, and uncompromising quality. Headquartered in Germany, the Rosenberger Group operates worldwide with numerous sales and production locations, offering a broad range of standardized and customized connectivity solutions in RF, high-voltage, and fiber optic technologies.

Rosenberger ensures the reliable transmission of signals, data, and power in the most demanding application areas. Leading high-tech companies across sectors such as mobile communications and telecommunications, industrial measurement technology, automotive electronics, medical and industrial electronics, data centers, and aerospace rely on Rosenberger products for their precision and outstanding reliability. The CNC machining division manufactures precision parts for a variety of industries, including the automotive and commercial vehicle sectors, shipbuilding, and conventional mechanical and plant engineering.

Since its founding in 1958, Rosenberger has been family-owned and currently employs more than 15,500 people worldwide. The company's employees are known for their dedication, innovative spirit, and commitment to quality, all firmly rooted in the values of a traditional family business.

For more information, please visit: www.rosenberger.com

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